

BKG® MHDP / MJHDP

High Pressure Pump

BKG® melt pump types MHDP / MJHDP are used in extrusion, compounding and polymerization processes.

The melt pump helps optimize the process, so the extrusion line produces optimal quality with the highest throughput possible. The melt pump has a rheologically optimized in- and outlet geometry to guarantee a very controlled transport of material. The precise design of the melt pump transports the medium consistently and conveys a specific and repeatable amount of polymer melt to the outlet side of the pump.

Features

Type: MHDP
Application: Standard polymers
Feature: Process-specific sealing systems

Type: MJHDP
Application: Has the same features as the MHDP-Type, with the additional advantage of fluid heating

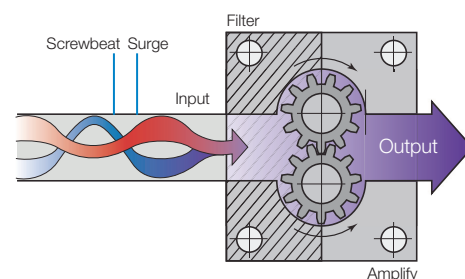
Benefits

- High pressure pump up to 689 bar (10,000 psi) operating pressure
- Reduction of stress on the extruder by means of shifting the job of building pressure to the melt pump
- Increase throughput rate leading to maximized production efficiency
- Elimination of output variations and pressure pulsations, thus improvement of product quality
- Raw material savings by means of tighter manufacturing tolerances
- Reduction of product rejections by means of eliminating the pulsations in the process
- Improvement of the dimensional accuracy in the production of sheets and profiles
- Optimization of the surface and optical quality in the production of films, sheets and profiles
- Increased product quality in homogeneity and pellet size in compounding applications
- Imperial US-connection geometry

Technical Information

Size	155/080 - 550/350*
Throughput	1.2 – 2,190 kg/hr (2.6 – 4,828 lbs/hr)*
Specific volume	3.9 – 731 cm ³ /rev (0.519 – 45 in ³ /rev)*
Viscosity	500 – 30,000 Pas*
Temperature	up to 343°C (650°F)*
Heating	Electric or Fluid
Pump outlet	max. 689 bar (10,000 psi)
Differential pressure	max. 517 bar (7,500 psi)

* Higher/lower throughputs, specific volumes, viscosities or temperatures upon request.



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